

## SEQUENCE LISTING

<110> Nakamura, Yusuke  
Furukawa, Yoichi

<120> METHODS OF DETECTING METHYL TRANSFERASE  
ACTIVITY AND METHODS OF SCREENING FOR METHYL TRANSFERASE  
ACTIVITY MODULATORS

<130> 082368-008500US

<150> PCT/JP2005/001172

<151> 2005-01-21

<150> US 60/538,658

<151> 2004-01-23

<160> 55

<170> PatentIn version 3.3

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Met Glu Pro Leu Lys Val  
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gaa aag ttc gca acc gcc aac agg gga aac ggg ctg cgc gcc gtg acc 161  
Glu Lys Phe Ala Thr Ala Asn Arg Gly Asn Gly Leu Arg Ala Val Thr  
10 15 20  
ccg ctg cgc ccc gga gag cta ctc ttc cgc tcg gat ccc ttg gcg tac 209  
Pro Leu Arg Pro Gly Glu Leu Leu Phe Arg Ser Asp Pro Leu Ala Tyr  
25 30 35  
acg gtg tgc aag ggg agt cgt ggc gtc gtc tgc gac cgc tgc ctt ctc 257  
Thr Val Cys Lys Gly Ser Arg Gly Val Val Cys Asp Arg Cys Leu Leu  
40 45 50  
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Gly Lys Glu Lys Leu Met Arg Cys Ser Gln Cys Arg Val Ala Lys Tyr  
55 60 65 70  
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Cys Ser Ala Lys Cys Gln Lys Lys Ala Trp Pro Asp His Lys Arg Glu  
75 80 85  
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Cys Lys Cys Leu Lys Ser Cys Lys Pro Arg Tyr Pro Pro Asp Ser Val  
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ttt caa cat ttc atg aga gaa gaa ata cag gat gcc tct cag ctg cca Phe Gln His Phe Met Arg Glu Glu Ile Gln Asp Ala Ser Gln Leu Pro 155 160 165			593
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gtg ttc aat ggg ccc cac ctc tta ctg cga gca gtc cga gac atc gag Val Phe Asn Gly Pro His Leu Leu Leu Arg Ala Val Arg Asp Ile Glu 215 220 225 230			785
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360 365 370

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Lys Val Gly Lys Leu Gln Leu His Gln Gly Met Phe Pro Gln Ala Met  
375 380 385 390

aag aat ctg aga ctg gct ttt gat att atg aga gtg aca cat ggc aga 1313  
Lys Asn Leu Arg Leu Ala Phe Asp Ile Met Arg Val Thr His Gly Arg  
395 400 405

gaa cac agc ctg att gaa gat ttg att cta ctt tta gaa gaa tgc gac 1361  
Glu His Ser Leu Ile Glu Asp Leu Ile Leu Leu Leu Glu Glu Cys Asp  
410 415 420

gcc aac atc aga gca tcc taa gggaacgcag tcagagggaa atacggcgtg 1412  
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425

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tctcttattg gaaattctgt tccgtgtttg tgtaggtaaa taaaggcaga catgggtttgc 1532

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Cys Asp Arg Cys Leu Leu Gly Lys Glu Lys Leu Met Arg Cys Ser Gln  
50 55 60

Cys Arg Val Ala Lys Tyr Cys Ser Ala Lys Cys Gln Lys Lys Ala Trp  
65 70 75 80

Pro Asp His Lys Arg Glu Cys Lys Cys Leu Lys Ser Cys Lys Pro Arg  
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Tyr Pro Pro Asp Ser Val Arg Leu Leu Gly Arg Val Val Phe Lys Leu  
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Leu Glu Ser Asn Ile Asn Lys Leu Thr Glu Asp Lys Lys Glu Gly Leu  
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Arg Gln Leu Val Met Thr Phe Gln His Phe Met Arg Glu Glu Ile Gln  
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Asp Ala Ser Gln Leu Pro Pro Ala Phe Asp Leu Phe Glu Ala Phe Ala  
 165 170 175

Lys Val Ile Cys Asn Ser Phe Thr Ile Cys Asn Ala Glu Met Gln Glu  
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Val Gly Val Gly Leu Tyr Pro Ser Ile Ser Leu Leu Asn His Ser Cys  
 195 200 205

Asp Pro Asn Cys Ser Ile Val Phe Asn Gly Pro His Leu Leu Leu Arg  
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Tyr Cys Phe Glu Cys Asp Cys Phe Arg Cys Gln Thr Gln Asp Lys Asp  
 260 265 270

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 275 280 285

Ser Leu Lys Lys Ile Glu Glu Leu Lys Ala His Trp Lys Trp Glu Gln  
 290 295 300

Val Leu Ala Met Cys Gln Ala Ile Ile Ser Ser Asn Ser Glu Arg Leu  
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